CLAIMS

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1.	Α	brake	assembly	z com	nrising
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a rotor;

a brake caliper assembly including an actuator motor;

at least one friction pad operably attached to the caliper assembly, wherein the actuator motor is operable to force the friction pad into frictional engagement with the rotor; and

at least one thermal conduit extending distally from the actuator motor for dissipating heat energy away from the actuator motor.

2. The assembly of claim 1 wherein the thermal conduit comprises a material having a thermal conductivity greater than that of the brake caliper assembly.

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- 3. The assembly of claim 1 wherein the thermal conduit comprises at least one elongated member.
- 4. The assembly of claim 1 wherein the thermal conduit comprises at least 20 one flexible member.
 - 5. The assembly of claim 1 wherein the thermal conduit comprises a heat pipe.
- 25 6. The assembly of claim 1 wherein the thermal conduit is operably attached to a suspension component.
 - 7. The assembly of claim 1 wherein the thermal conduit is operably attached to an actuator motor stator.

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	8.	The assembly of claim 1 wherein the thermal conduit is manufactured
substa	intially f	rom a material selected from a group consisting of aluminum, copper,
brass,	nickel,	steel, a metal, a metal alloy, and a composite.

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- 9. The assembly of claim 1 further comprising a heatsink member operably attached to the thermal conduit, the heatsink member including a plurality of fins.
- 10. A method of dissipating heat from a brake assembly, the method comprising:

providing an actuator motor;

providing a thermal conduit extending distally from the actuator motor;

and

conducting heat away from the actuator motor along the thermal conduit.

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11. The method of claim 10 wherein conducting heat from the actuator motor along the thermal conduit comprises transferring heat from a first material to a second material wherein the second material comprises a thermal conductivity greater than the first material.

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- 12. The method of claim 10 further comprising moveably flexing the thermal conduit.
- 13. The method of claim 10 further comprising providing a dissipation site thermally coupled to the thermal conduit.
 - 14. The method of claim 13 further comprising convecting heat from the dissipation site.

- 15. The method of claim 13 further comprising conducting heat from a brake assembly component other than the actuator motor.
- 5 16. A brake assembly comprising:

actuator motor means;

thermal conduit means extending distally from the actuator motor means;

and

means for conducting heat from the actuator motor means along the thermal conduit means.

- 17. The assembly of claim 16 further comprising means for flexing the thermal conduit means.
- 15 18. The assembly of claim 16 further comprising dissipation site means thermally coupled to the thermal conduit means.
 - 19. The assembly of claim 18 further comprising means for convecting heat from the dissipation site means.

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20. The assembly of claim 16 further comprising means for conducting heat from a brake assembly component other than the actuator motor means.